



Program Overview

Rain Garden

The City of Shoreline Surface Water Utility strives to improve water quality and reduce flows into the City's stormwater system.

The Soak It Up LID Rebate Program offers year-round incentives to incorporate low impact development (LID) retrofits such as rain gardens and conservation landscaping of private and commercial properties.

Rebates range from \$800 to \$1,600 per property, depending on the area treated or removed. Rebates are awarded on a first come, first served basis.

Visit shorelinewa.gov/SoakItUp for more info or call (206) 801-2450.



\$2.00 per SF of contributing area treated, minimum 400 SF and maximum 800 SF

A rain garden is a planted, shallow depression filled with layers of soil and organic material that collects, absorbs, and filters stormwater runoff from roof tops, driveways, patios, and other areas that don't allow water to soak in. Rain gardens can be shaped and sized to fit your yard, and can be landscaped with a variety of native plants to fit the surroundings.



Conservation Landscaping

Conservation landscaping is the removal of impervious surfaces such as pavement or turf grass and replacing it with native plant species that have deeper root systems and amended soils. In addition to laying down mulch, this technique slows down the flow of stormwater runoff, allows for the groundwater to recharge, and filters out pollutants.

\$2.00 per SF hardscape converted to native vegetation, minimum 400 SF and maximum 800 SF





Application Process

1. Set up a site visit

City staff will inspect the site and discuss options.

Phone: (206) 801-2450

Email: tkendall@shorelinewa.gov



2. Submit application

Mail to or drop-off at Shoreline City Hall, Attn: Tina Kendall, 17500 Midvale Ave N, Shoreline 98133.

Rain Garden	Application	Planting plan	Site design	W-9 form	Rain garden worksheet
Conservation Landscaping	Application	Planting plan	Site design	W-9 form	

3. Receive email confirmation to begin project

City staff will email an approval notice to proceed with project construction.

4. Begin and complete project

The project must adhere to the guidelines set in the Rain Garden and Conservation Landscaping handouts. Contact City staff if project cannot be completed within four (4) months of approval.

5. Request final inspection

City staff will inspect the installed project, take photos, and provide Covenant documents.

Phone: (206) 801-2450

Email: tkendall@shorelinewa.gov

6. Covenant

Sign and notarize two (2) copies of the Declaration of Covenant for Detention System Maintenance. Combination projects require a covenant for each retrofit. Notary services are available at City Hall Clerks front desk for City-related business. This is a no-cost service.

Property owner/s are required to submit a covenant to receive a rebate. It restricts the removal. It restricts the removal of the LID retrofit for ten (10) years, and allows the City access for maintenance inspections. If the property owner removes it before the expiration of the covenant, the City will require the current property owner to return the rebate amount. The covenant is associated to the property, not the property owner who originally signed it.

7. Rebate check issued

If all requirements are met and documents submitted, the rebate will be approved.

Please allow three to six weeks for the check to be mailed.





Rebate Checklist

Application Submittal

Mail to or drop-off at Shoreline City Hall, Attn: Tina Kendall, 17500 Midvale Ave N, Shoreline 98133.

Rain Garden		Conservation Landscaping	
	Rebate application		Rebate application
	Site design		Site design
	Planting plan		Planting plan
	W-9 form		W-9 form
	Rain garden worksheet		

Application Approval

Date _____

Receive email confirmation to begin construction. Contact City staff if project cannot be completed within four (4) months of approval.

Project Approval

Contact City staff for final project inspection.

Covenant Submittal

Turn in two (2) copies of the Declaration of Covenant, signed by property owners listed on the property deed, and notarized by a Notary Public. City Hall Clerks staff will notarize at no charge for City-related business.

Program Assistance

For program related questions, please contact City of Shoreline staff at:

Phone (206) 801-2450

Email tkendall@shorelinewa.gov

Website shorelinewa.gov/SoakItUp

Address 17500 Midvale Ave N Shoreline WA 98133

Technical Assistance

The King Conservation District offers a Fish and Wildlife Habitat Enhancement Program that allows King County residents to take advantage of technical assistance for site design and native planting. Contact King Conservation District staff at:

Phone (425) 282-1900

Email district@kingcd.org

Website kingcd.org



Soak It Up Conservation Landscaping Rebate Program

Transforming impervious surfaces to healthy functioning landscapes helps lessen the impacts of stormwater runoff. Restoring soils by tilling compacted soils and incorporating compost can restore infiltration and water storage capacity, rebuild soil life, reduce the need for additional watering and fertilization, and decrease surface water runoff.

Plan Guidelines

Conservation landscaping can be applied to any site with varying levels of improvement.

Replacing turf requires either removal or killing the grass (e.g. staked plastic sheeting or cardboard over a winter will kill most turf) prior to tilling and amending the soil.

Replacing hardscape such as a concrete patio will require concrete and gravel removal, and then amending and tilling the soil below. Depending on the thickness of the concrete, a sledge hammer or jack hammer may be required.

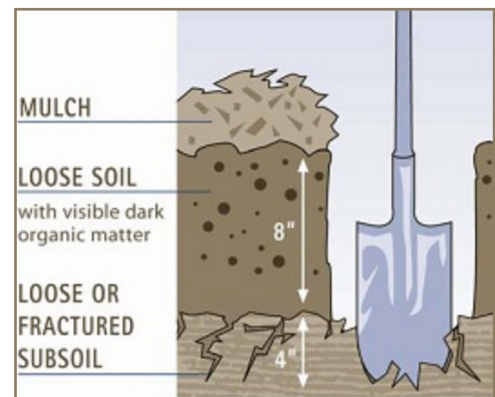
Areas to avoid include:

- Under the drip line of trees to avoid roots and lack of rainfall
- Deep shade to avoid poor plant growth from insufficient sunlight

Build Guidelines

Additional topsoil will need to be imported if the existing site has only subsoils that lack organic material and in general look pale versus topsoil. Do not scarify within drip line of trees.

- Dial 811 - Call Before You Dig to have all your utilities located and marked
- Scarify or till compacted subsoils at least 4-inches below an 8-inch deep amended layer (for a finished uncompacted depth of 12-inches)
- Place 3-inches of composted material and till into 5-inches of soil (a total amended depth of about 9.5-inches, for a settled depth of 8-inches).



Planting & Mulch Guidelines

Once the soil has been prepared, install plants as per design plan.

- At least 50% of the plants must be native plants or cultivars to this eco-region
- Do not plant any species from King County's Noxious Weed List, kingcounty.gov/weeds

Mulch helps with moisture retention in dry months, reduces weed growth, and speeds plant development. Mulch should be kept from touching the trunks of trees and shrubs.

- Plastic sheeting prohibited (impermeable weed barrier)
- Apply 3-inches of wood-based mulch



Rain Gardens

Rain gardens are important and versatile tools in the approach to managing stormwater known as low impact development or LID. Benefits of installing a rain garden include:

- Provides habitat for beneficial insects and birds
- Filters pollutants such as oil and grease from driveways and pesticides and fertilizers from lawns, before they reach groundwater or storm drains that eventually lead to streams, wetlands, lakes, and Puget Sound
- Minimize flooding on neighboring property and erosion in streams

Plan & Build Guidelines

Rain garden planning, designing, building, and maintenance must follow the step-by-step instructions presented in the "Rain Garden Handbook for Western Washington." An electronic version is accessible at shorelinewa.gov/RainGardenHandbook. Chapters of interest include:

- Where to and not to locate your rain garden Pg 12 - 14
- Test your soil (soil drainage rate) Pg 15 - 17
- Determine the size/shape of your rain garden Pg 18 - 26
- Call 811 before you dig Pg 31

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Shoreline Unitarian Universalist Church Rain Garden Project





Rebate Application

APPLICANT INFORMATION			
Property Owner Name(s):			
Address:		ZIP Code:	Phone: ()
Email Address:			
REBATE INFORMATION			
Type of Installation:	Area treated / converted (min 400 SF / max 800 SF Total)	Rebate Rate	\$ Amount Rebate Request (min \$800 / max \$1,600 Total)
<input type="checkbox"/> Rain Garden	_____ square feet treated	x \$_____ / SF	\$ _____
<input type="checkbox"/> Conservation Landscaping	_____ square feet converted	x \$_____ / SF	\$ _____
INSTALLATION			
_____ Do it yourself _____ Contractor Contractor Name: _____			
PROJECT DETAILS			
Describe the project location, sun exposure, soil mix, and mulch type:			

Please verify the following for rain garden projects:

I will register my rain garden at 12000raingardens.org website

I have the option of identifying my rain garden with an informational sign provided by the City

By signing this form, I certify that I am the owner of the installation site; the information I have provided is complete and accurate; I will maintain and keep the installed system in good working order for a minimum of ten (10) years; and I grant the City of Shoreline (City) permission to conduct site inspections of my installed project at times that are mutually acceptable to me and the City.

Signature

Date





Rain Garden Worksheet

Instructions

Refer to the "Rain Garden Handbook for Western WA" at shorelinewa.gov/raingardenhandbook.

1. Dig test hole (approximately 2 feet deep and 1 to 2 feet wide)
2. Evaluate soil texture
3. Determine desired ponding depth
4. Fill the hole with water and observe drainage rate. Number of tests is dependent on the month that it is administered.
 - December - April: Test once
 - May - November: Test 3 times consecutively, and use the 3rd test as your drainage rate

Sizing Calculations		
Soil drainage rate	_____ inches per hr	<i>Per test described on pages 15-17</i>
Contributing area	_____ SF	<i>As calculated in the example on page 19</i>
Desired ponding depth	_____ inches	<i>Based on installer's preference</i>
Desired performance level	<u>BEST</u>	<i>Based on City's preference</i>
Rainfall region	<u>Region 2, Shoreline, WA</u>	<i>Based on map on page 22</i>
Sizing factor	_____ %	<i>Use the sizing chart on page 21</i>
Soil texture	_____	<i>Sandy, silty, or clay-like? See page 15-16</i>
Results		
Required size of top surface of ponding area	_____ SF	<i>Multiply contributing area by sizing factor</i>
Design dimensions for top surface of ponding area	____' Width x ____' Length	<i>Dimensions that fit in available space and based on installer's preference</i>
Overflow containment area	____' Width x ____' Length	<i>Calculated by adding 1 foot horizontal to all sides for the 6-inch vertical depth required on a 2:1 slope. See page 24</i>



Planting Plan

Instructions

Section 3: Plant of the "Rain Garden Handbook for Western WA" at shorelinewa.gov/raingardenhandbook offers information that is also relevant to conservation landscaping.

Rain Garden Handbook Sub-sections	Page	Rain Garden	Conservation Landscaping
Prepare to landscape your rain garden	44	✓	✓
The benefits of plants	45	✓	✓
Planting zones	45	✓	
Landscaping guidelines and suggestions	46	✓	✓
Mulch	50	✓	✓
Sample planting plans	51	✓	
Appendix A: Plant List	A-1	✓	✓

Plant List

At least 50% of the plants must be native plants or cultivars to this eco-region. The list must not include any species from King County's Noxious Weed List, kingcounty.gov/weeds.

Species	Quantity	Container Size



Site Design

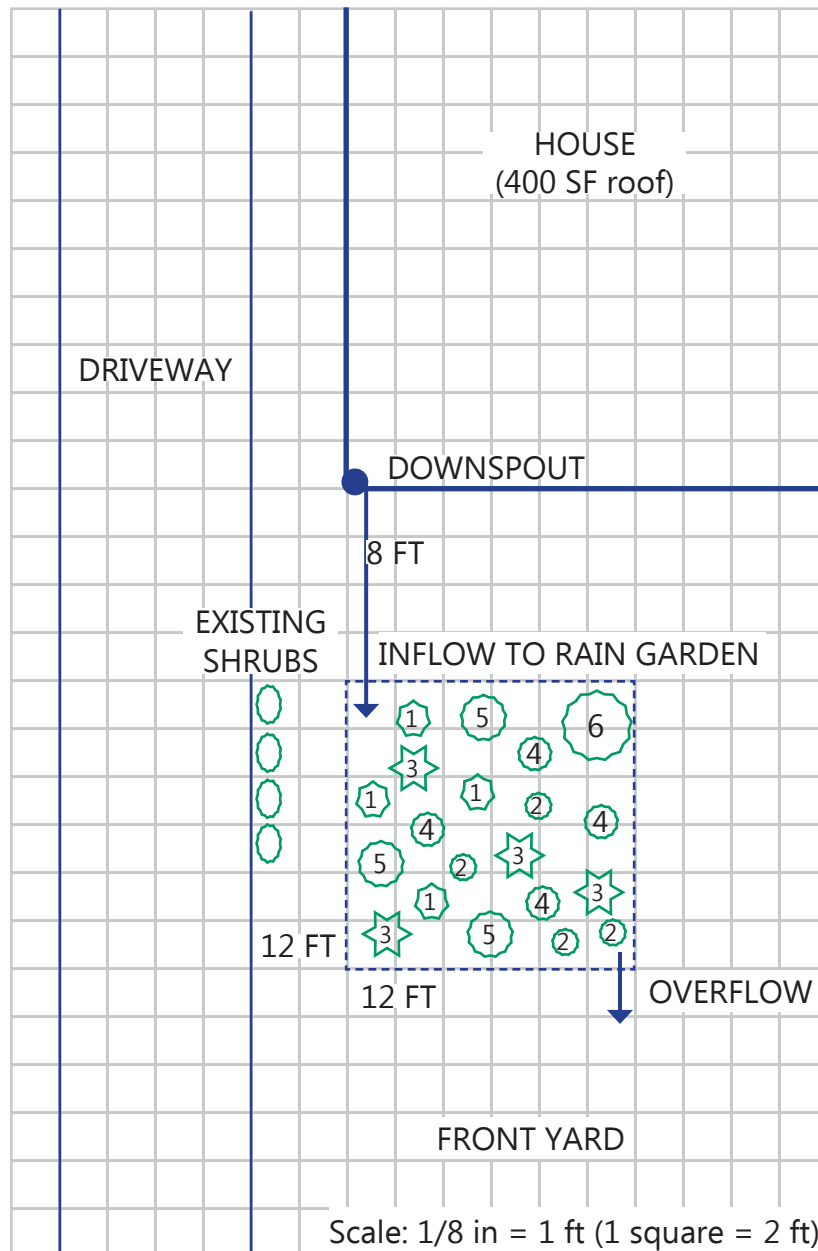
Instructions

Design sketches shall include:

- Scale drawing to 1/4 in = 1 ft OR, 1/8 in = 1 ft, OR 1 in = 10 ft
- Dimensions of rain garden and/or conservation landscaping
- Distance from any structures
- Location descriptors (i.e. front, back, side yard)
- Planting plan

Legend

1. Slough sedge (native)
2. Lady fern (native)
3. Globe thistle
4. English lavender
5. Bloodtwig dogwood
6. Vine maple (native)





Grid

Scale drawing to: 1/4 in = 1ft OR 1/8 in = 1 ft OR 1 in = 10 ft

